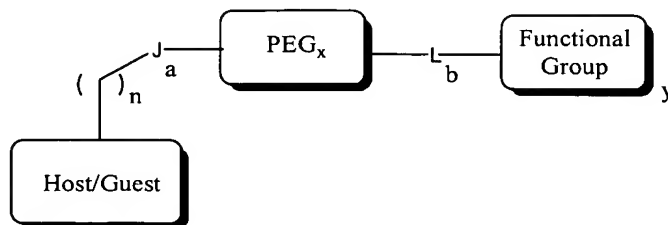


The claimed invention is:

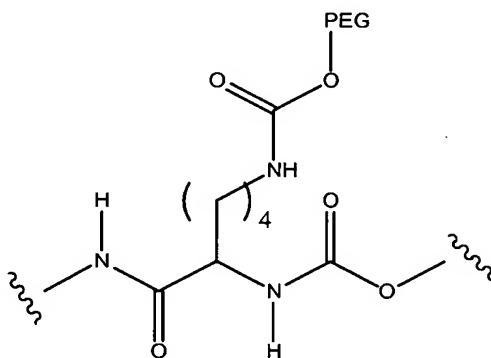
1. A compound of the formula:



5

wherein

J is $-\text{NH}-$, $-\text{C}(=\text{O})\text{NH}-(\text{CH}_2)_d-$, $-\text{NH}-\text{C}(=\text{O})-(\text{CH}_2)_d-$, $-\text{CH}_2\text{SS}-$, $-\text{C}(=\text{O})\text{O}-(\text{CH}_2)_e-\text{O}-\text{P}(=\text{O})(\text{O}-(\text{CH}_2)_e-\text{Y})\text{O}-$,



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a peptide or polypeptide residue, or

$-\text{NH}-(\text{C}=\text{O})-\text{CH}(\text{R}^1)-\text{NH}-(\text{C}=\text{O})-\text{CH}(\text{R}^1)-\text{NH}-$;

Y is an additional host/guest functionality;

15 R^1 is $-(\text{CH}_2)_a-\text{CO}_2\text{H}$, an ester or salt thereof; or $-(\text{CH}_2)_a-\text{CONH}_2$;

PEG is $-\text{O}(\text{CH}_2\text{CH}_2\text{O})_z-$, where z varies from 2 to 500;

L is H, $-\text{NH}_2$, $-\text{NH}-(\text{C}=\text{O})-(\text{CH}_2)_e-(\text{C}=\text{O})-\text{CH}_2-$, $-\text{S}(=\text{O})_2-\text{HC}=\text{CH}_2-$, $-\text{SS}-$, $-\text{C}(=\text{O})\text{O}-$ or a carbohydrate residue;

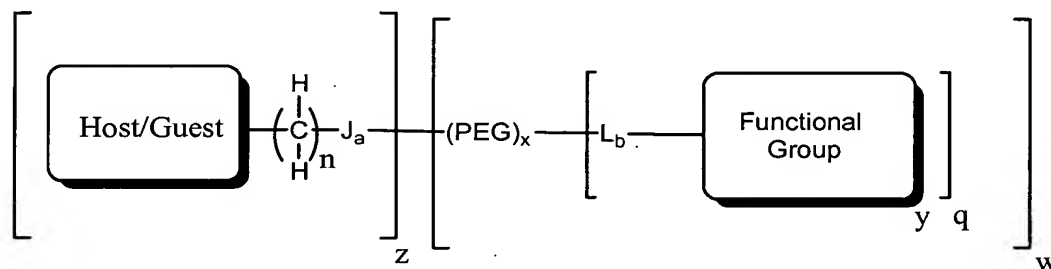
a is 0 or 1;

20 b is 0 or 1;

- d ranges from 0 to 6;
e ranges from 1 to 6;
n ranges from 0 to 6;
y is 0 or 1; and
5 x is 0 or 1.

2. A compound of claim 1, wherein the host/guest is selected from the group of adamantyl, naphthyl, cholesterol, cyclodextrin, and mixtures thereof.

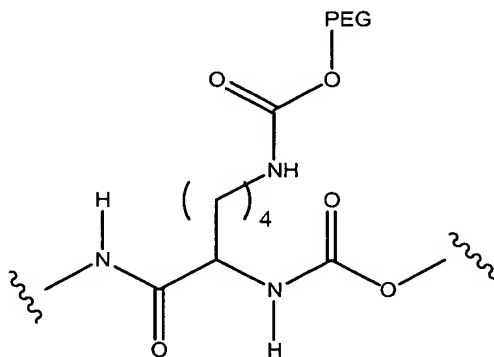
- 10 3. A compound of the formula:



wherein

J is $-\text{NH}-$, $-\text{C}(=\text{O})\text{NH}-(\text{CH}_2)_d-$, $-\text{NH}-\text{C}(=\text{O})-(\text{CH}_2)_d-$, $-\text{CH}_2\text{SS}-$, $-\text{C}(=\text{O})\text{O}-(\text{CH}_2)_e-\text{O}-\text{P}(=\text{O})(\text{O}-(\text{CH}_2)_e-\text{Y})\text{O}-$,

15



a peptide or polypeptide residue, or

$-\text{NH}-(\text{C}=\text{O})-\text{CH}(\text{R}^1)-\text{NH}-(\text{C}=\text{O})-\text{CH}(\text{R}^1)-\text{NH}-$;

20 Y is an additional host/guest functionality;

R¹ is $-(CH_2)_a-CO_2H$, an ester or salt thereof; or $-(CH_2)_a-CONH_2$;
PEG is $-O(CH_2CH_2O)_z-$, where z varies from 2 to 500;
L is H, $-NH_2$, $-NH-(C=O)-(CH_2)_e-(C=O)-CH_2-$, $-S(=O)_2-HC=CH_2-$, $-SS-$, $-C(=O)O-$ or a carbohydrate residue;

- 5 a is 0 or 1;
b is 0 or 1;
d ranges from 0 to 6;
e ranges from 1 to 6;
n ranges from 0 to 6;
10 q ranges from 1 to 5;
w ranges from 1 to 5;
y is 0 or 1;
x is 0 or 1; and
z ranges from 1 to 5.

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4. A compound of claim 3, wherein the host/guest is selected from the group of adamantyl, naphthyl, cholesterol, cyclodextrin, and mixtures thereof.

5. A composition comprising a particulate composite of a cyclodextrin containing polymer and a therapeutic agent and an inclusion complex of said cyclodextrin polymer and a complexing agent comprising an inclusion guest is a compound of claim 1.

25 6. A composition of claim 5, wherein said therapeutic agent is selected from the group consisting of an antibiotic, a steroid, a polynucleotide, small molecule pharmaceutical, a virus, a plasmid, a peptide, a peptide fragment, a chelating agent, a biologically active macromolecule, and mixtures thereof.

30 7. A composition of claim 6, wherein said therapeutic agent is a polynucleotide.

8. A composition comprising a particulate composite of a cyclodextrin
containing polymer and a therapeutic agent and an inclusion complex of said
cyclodextrin polymer and a complexing agent comprising an inclusion guest is a
5 compound of claim 3.

9. A composition of claim 8, wherein said therapeutic agent is selected from
the group consisting of an antibiotic, a steroid, a polynucleotide, small molecule
pharmaceutical, a viruse, a plasmid, a peptide, a peptide fragment, a chelating
10 agent, a biologically active macromolecule, and mixtures thereof.

10. A composition of claim 9, wherein said therapeutic agent is a
polynucleotide.

add
A'